

## All Laser Technology is Not Created Equal

Ensure your choice of laser projectors include the most advanced technology features:

## **NEC laser phosphor projector features include:**

- 20,000-plus hours of virtually maintenance-free operation
- HDBaseT for easy connection and cost saving installation
- Tilt-free and Portrait mode features improving installation flexibility
- Adjustable light source for control in any ambient lighting condition
- Constant Brightness Mode sustains light output over a long period of time





- Imaging Device Lifetime Equal to or greater than light source
- White/Color uniformity Uniform from corner to corner
- Virtually maintenance free Filter free
- 24/7 operation suited for Network Operation Centers and Digital Signage applications\*

		DESEWI	DESCHI	DAKEZIII	PA803UL	
Picala Tadasla		<b>P525WL</b> 0.64" LCD w MLA	P525UL	PA653UL	PA803UL	
Display Technology				0.76" LCD w MLA	0.000	
Light Output (lumens)	l n. e	5,200 normal / Eco = variable	WIIIVCA 4000 4000	6,500 normal / Eco = variable	8,000 normal / Eco = variable	
Resolution	Native	WXGA 1280 x 800	WUXGA 1920 x 1200	WUXGA 1920 x 1200		
Control Balla ( anta)	Maximum	4K@30Hz 3840 x 2160		4K 4096 x 2160		
Contrast Ratio (up to)		500,000:1 with dynamic contrast		2,500,000:1 with auto iris		
Lamp Life (up to)		20,000 hours				
Screen Size (diagonal)		25 to 300 in. / 0.67 to 7.6m		50 to 500 in. / 1.27 to 12.7m		
Throw Ratio		1.23 - 2.0:1		NP44ML-01LK: 0.32:1		
				NP40ZL: 0.79 - 1.11		
				NP41ZL: 1.30 - 3.02		
				NP43ZL: 2.88 - 5.93		
Projection Distance		2.6 - 44.3 ft. / 0.8 - 13.5m		2.5 to 68.5 ft. / 0.74 to 20.9m		
Projection Angle		0 to 10.8° tele / 0 to 17.0° wide		10.3 to 10.8° tele / 13.7 to 14.5° wide		
Lens	Zoom	Manual		Motorized		
	Zoom Ratio	1.6:1			Variable	
	Focus	Manual		Motorized		
	F-number, f-number	F= 1.5~2.1, f= 17.2 to 27.6mm		NP44ML-01LK: F=2.0, f= 6.27mm		
				NP40ZL: F=2.0 to 2.5, f= 13.3 to 18.6mm		
				NP41ZL: F=1.7 to 2.0, f= 21.8 to 49.8mm		
				NP43ZL: F=2.2 to 2.6, f= 49.7 to 99.8mm		
	Shift	Manual (H = +/- 29% / V = 0%~+60%)		Motorized +0.5/-0.1 vertical, +/-30 horizontal		
Keystone Correction		+/- 25° horizontal, +/- 30° vertical		+/- 40° horizontal, +/- 40° vertical		
Synchronization Range	Horizontal	15 to 100KHz (RGB: 24kHz or over)	15 to 100KHz (RGB: 24kHz or over)		Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	50 to 120Hz		Analog: 48-120Hz, Digital: 24-120Hz		
Supported Video Standards		NTSC3.58, NTSC4.43, PAL, PAL-60, PAL-M, PA	L-N, SECAM	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM		
SD/HD Video Signal Compati	bility	4K, 1080p, 1080i, 720p, 576p, 576i, 480p,	180i	4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i		
PC Signal Compatibility		VGA, SVGA, XGA, WXGA, Quad-VGA, SXGA, SX	GA+, WXGA+, WXGA++, WSXGA+, WUXGA	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUX	GA, 4K	
Macintosh Compatibility		Yes				
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using A	DP-CV1E adapter			
	RGB2 (analog)					
	RGB1 (Digital)					
	RGB2 (digital)	HDMI (w/HDCPv1.4)		HDMI (V2.0) w/HDCP (V1.4/2.2)		
	RGB3 (digital)	HDMI (w/HDCPv1.4)		HDMI (V2.0) w/HDCP (V1.4/2.2)		
	RGB4 (digital)	HDBaseT		DisplayPort w/HDCP (V1.4)		
	RGB5 (digital)	1100001		HDBaseT w/HDCP (V1.4/2.2)		
	RGB6 (digital)	1.00001.00004 (1.00001				
	Option Slot					
	Video	RCA				
	Audio 1	Stereo Mini Jack		I .		
	Audio 2	Stores Williams				
	Audio Out	Stereo Mini Jack				
	Monitor Out	Stereo willi sack		HDBaseT		
	USB Type A	Memory, (2A)		Tibbaser		
	USB Type A (behind	Wireless LAN (optional)				
	cover)	Wireless LAN (optional)				
	USB Type B (behind	USB Service	USB Service			
	cover)					
Wired LAN port		RJ45 (100Base-TX/10Base-T)	RJ45 (100Base-TX/10Base-T)			
3D Sync Line				3Pin D		
Audio		20W mono				
External Control		RS-232 (D-Sub 9pin), IR, RJ-45		RS-232, IR, HDBaseT, Stereo Mini , RJ-45		
Sync Compatibility		Separate Sync / Composite Sync / Sync on G		Separate Sync / Composite Sync / Sync on G		
Power Requirements		100 – 240V AC, 50/60Hz		100 - 240V AC, 50/60Hz		
Input Current		5.0 - 2.1A	5.1 - 2.1A	10.2A - 4.5A	11.8A - 5.2A	
Power Consumption		320W / 332W / 1.4W / 0.13W	330W / 340W / 1.4W / 0.13W	672W / 437W / 0.64W / 0.11	798W / 470W / 0.64W / 0.11	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear		
Dimensions (WxDxH)		18.9 x 16.0 x 5.6 in. / 480 x 407 x 142.5mm		22.8 x 19.4 x 8.2 in. / 580 x 494 x 208mm		
Net Weight		21.3 lbs. / 9.7 kg		40.1lbs./18.2 kg		
Fan Noise		27 dB normal / 22 dB eco		39 dB normal / 33 dB eco		
Regulations		"USA: UL60950-1:2nd edition,2014, UL62368-1:2nd Edition, FDA, FCC Part15 Subpart B(ANSI C63.4:2014), Proposition65, TPCH Canada: CAN/CSA C22.2 No.60950-1-07,2nd Edition,2014, ICES-003 Issue6(ANSI C63.4:2014)"		USA: FCC Part15 Subpart B(ANSI C63.4:2014), UL62368-1:2nd Edition Canada: CSA C22.2 No.60950-1-07,2nd Edition,2014, NOM		
Operating Temperature		41° - 104°F / 5° - 40°C	2 Edition, 2014, ICES-003 ISSUED(MNSI C03.4.2014)	I .		
Humidity		20-80% non-condensing		20-80% non-condensing		
Storage		-14° - 122°F / -10° - 50°C		-14° - 122°F / -10° - 50°C		
otorugo		122 1 / 10 ' 30 C		122 1 / 10 30 C		

		PX803UL	PX1004UL	PX1005QL			
DisplayTachnology		0.67" DMD	TA10040E	0.66"TRP DMD			
Display Technology  Light Output (lumens)		8,000 normal / Eco = variable	10,000 normal / Eco = variable	10,000 normal / Eco = variable			
	Native	WUXGA 1920 x 1200	10,000 Hoffilal / Eco — variable	WQXGA 2716 x 1528			
Resolution	Maximum	4K 4096 x 2160		4K UHD 3840 x 2160 Viewable			
Contrast Ratio (up to)	IVIdXIIIIUIII						
· · · ·		15,000:1 with dynamic contrast         10,000:1 with dynamic contrast           20,000 hours         10,000:1 with dynamic contrast					
Lamp Life (up to)				40 to 500 in 11 57 to 10 7m			
Screen Size (diagonal) Throw Ratio		30 to 300 in. / 0.76 to 7.62m NP39ML: 0.38:1		40 to 500 in. / 1.57 to 19.7m NP39ML4K: 0.38:1			
Inrow Katio		NP31ZL: 0.75 - 0.93:1		NP31ZL-4K: 0.75 - 0.93:1			
		NP16FL: 0.75: 0.93: 1		NP16FL-4K: 0.76:1			
		NP17ZL: 1.25 · 1.79:1		NP17ZL-4K: 1.25 - 1.79:1			
		NP18ZL: 1.73 - 2.27:1		NP18ZL-4K: 1.73 - 2.27:1			
		NP19ZL: 2.22 - 3.67:1		NP19ZL-4K: 2.22 - 3.67:1			
		NP20ZL: 3.58 - 5.38:1		NP20ZL-4K: 3.58 - 5.38:1			
		NP21ZL 5.31 · 8.26:1		NP21ZL-4K: 5.31 - 8.26:1			
Projection Distance		2.1 to 179.8 ft. / 0.64 to 54.8m		1.6 to 182.9 ft. / 0.6 to 55.8m			
Projection Angle		2.1 to 19.1° tele / 3.3 to 24.0° wide		1.2 to 17.6° tele / 1.8 to 22.0° wide			
Lens	Zoom	Motorized		Motorized			
LCII3	Zoom Ratio	Variable		Variable			
	Focus	Motorized		Motorized			
	F-number, f-number	NP39ML: F=2.0, f=5.64mm		NP39ML-4K: F=2.0, f=5.64mm			
	1-number, r-number			NP31ZL-4K: F=1.96 to 2.3, f=11.3 to 14.1mm			
		NP31ZL: F=1.96 to 2.3, f=11.3 to 14.1mm NP-16FL: F=1.85, f=11.6mm		NP16FL-4K: F=1.96 to 2.3, I=11.3 to 14.1mmi			
		NP17ZL: F=1.85 to 2.5, f=18.7 to 26.5mm		NP17ZL-4K: F=1.85 to 2.5, f=18.7 to 26.5mm			
		NP18ZL: F=1.64 to 1.86, f=25.7 to 33.7mm		NP18ZL-4K: F=1.64 to 1.86, f=25.7 to 33.7mm			
		NP19ZL: F=1.86 to 2.48, f=32.9 to 54.2mm		NP19ZL-4K: F=1.86 to 2.48, f=32.9 to 54.2mm			
		NP20ZL: F=1.85 to 2.4, f=52.8 to 79.1mm		NP20ZL-4K: F=1.85 to 2.4, f=52.8 to 79.1mm			
		NP21ZL: F=1.85 to 2.48, f =78.5 to 121.9mm		NP21ZL-4K: F=1.85 to 2.48, f =78.5 to 121.9mm			
	Shift	Motorized +0.59 vertical, +/-28 horizontal		THE FEET THAT THOU GO ET TOP TO THE TEXT THAT			
Keystone Correction	Sinit	Motorized + 0.59 vertical, +/-28 norizontal +/- 40° horizontal, +/- 40° vertical					
Synchronization Range	Horizontal	+/- 40* norizontai, +/- 40* vertical  Analog: 15-100kHz, Digital: 15-153kHz					
Syncinonization range	Vertical	Analog: 48-120Hz, Digital: 24-120Hz					
Supported Video Standards	vertical	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM					
SD/HD Video Signal Compatib	ility	NISC, NISC4.43, PAL, PAL-00, PAL-M, PAL-M, SECAM  4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i					
PC Signal Compatibility	inty .	4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i  VGA, SVGA, XGA-, XGA+, UXGA, WUXGA, 4K					
Macintosh Compatibility		Yes					
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter					
input output icinimus	RGB2 (analog)	5-BNC					
	RGB1 (Digital)	3 810		HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB2 (digital)	HDMI (V1.4) w/HDCP		HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB3 (digital)	DisplayPort w/HDCP		DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB4 (digital)	HDBaseT		DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB5 (digital)	1100000		HDBaseT w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 8 bit 4:2:0			
	RGB6 (digital)			Quad 3G-SDI			
	Option Slot	OPS					
	Video						
	Audio 1						
	Audio 2						
	Audio Out						
	Monitor Out	HDMI (V1.4) w/HDCP					
	USB Type A						
	USB Type A (behind						
	cover)						
	USB Type B (behind						
	cover)						
Wired LAN port							
3D Sync Line		3Pin D					
Audio		DO COOK IN LIDE AT CLASS AND IN DATE		DC 000 ID UDD TC. AV.			
External Control		RS-232, IR, HDBaseT, Stereo Mini , RJ-45		RS-232, IR, HDBaseT, Stereo Mini			
Sync Compatibility		Separate Sync / Composite Sync / Sync on G					
Power Requirements		100 – 240V AC, 50/60Hz	44.04	40.54 .5.54			
Input Current		9.4A - 3.8A	11.8A - 5.2A	12.54 - 5.54			
Power Consumption		874W/456W/4.3W/0.18W 1220W/625W/4.3W/0.2W 1181W/658W/0.88W/0.5W					
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear					
Dimensions (WxDxH)			19.7 x 22.8 x 8.5 in. / 500 x 583 x 216mm				
Net Weight		61.7 lbs. / 28.0 kg 63.9 lbs. / 29.0 kg 68.8 lbs. / 31.2 kg					
Fan Noise		40 dB normal / 35 dB eco 42 dB normal / 37 dB eco 42 dB normal / 39 dB eco					
Regulations		USA: UL(UL60950-1, Laser + Lamp (IEC60825-1 + IEC62471), FCC Part15 Class A Canada: CUL(UL60950-1, Laser + Lamp (IEC60825-1 + IEC62471), ICES-003 Class A					
Operating Temperature		41-104°F/5° - 40°C					
Humidity		20-80% non-condensing					
Storage		-14° - 122°F / -10° - 50°C					

		PH1202HL1	PH2601QL	PH3501QL		
Display Technology -		0.65" DMD	THEOVICE	INSTITUTE		
Display Technology Light Output (lumens)		12,000 normal / Eco = variable	26,000 normal / Eco = variable	35,000 normal / Eco = variable		
Resolution	Native	1080p 1920 x 1080	DC4K 4096 x 2160	1 200		
	Maximum	4K 4096 x 2160	4K 4096 x 2160			
Contrast Ratio (up to)		15,000:1 with dynamic contrast	2,000:1 with dynamic contrast			
Lamp Life (up to)		20,000 hours				
Screen Size (diagonal)		100 to 500 in. / 2.54 to 12.7m	50 to 500 in. / 1.27 to 12.7m			
Throw Ratio		NP-9LZ08ZM1: 0.9 -1.34:1	L2K-10F1: 0.93:1			
		NP-9LS12ZM1: 1.28 - 1.83:1 NP-9LS13ZM1: 1.42 - 2.24:1	L4K-11ZM: 1.24 - 1.73:1 L4K-15ZM: 1.52 - 2.10:1			
		NP-9LS13ZM1: 1.42 - 2.24:1 NP-9LS16ZM1: 1.73 - 2.88:1	L4K-20ZM: 1.98 - 3.34:1			
Projection Distance		WI-7E310ZWIT. 1.73 - Z.00.1		L2K-30ZM: 2.71 - 3.92:1		
			L2K-43ZM1: 3.91 - 5.52:1			
		4.6 to 245.1 ft. / 1.4 to 74.7m	L2K-55ZM1: 5.00 - 7.80:1 2.5 to 68.5 ft. / 0.74 to 20.9m			
Projection Distance Projection Angle		5.8 to 14.4° tele / 10.9 to 18.4° wide	10.3 to 10.8° tele / 13.7 to 14.5° wide			
Lens	Zoom	Motorized	Motorized			
	Zoom Ratio	Variable	Variable			
	Focus	Motorized	Motorized			
	F-number, f-number	NP-9LZ08ZM1: F=2.5 - 3.0, f= 13.3 - 19.9mm	L2K-10F1: F=2.5, f= 28.95mm			
		NP-9LS12ZM1: F=2.5,	L4K-11ZM: F=2.5, f= 38.5 to 53.7mm			
		NP-9LS13ZM1: F=2.5,	L4K-15ZM: F=2.5, f= 47.5 to 65.6mm			
		NP-9LS16ZM1: F=2.5,	L4K-20ZM: F=2.5, f= 61.4 to 105.2mm			
			L2K-30ZM: F=2.5, f= 85.0 to 121.6mm L2K-43ZM1: F=2.5, f= 122.8 to 172.3mm			
			L2K-55ZM1: F=2.5, f= 156.5 to 243.1mm			
	Shift		L2K-10F1:			
			L4K-11ZM:	Motorized +/-0.27 Vertical, +/-0.08 Horizontal		
			L4K-15ZM:			
			L4K-20ZM:			
			L2K-30ZM:	Motorized +/-0.17 Vertical, +/-0.50 Horizontal		
			L2K-43ZM1:			
Keystone Correction		Motorized +/-0.5 vertical, +/-11 horizontal +/- 40° horizontal, +/- 40° vertical	L2K-55ZM1: +/- 40° horizontal, +/- 40° vertical	Motorized +/-0.31 Vertical, +/-0.10 Horizontal		
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	Analog: 15-100kHz, Digital: 15-153kHz			
Synchronization Range	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	Analog: 48-120Hz, Digital: 24-120Hz			
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM			
SD/HD Video Signal Compatib	oility	4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i				
PC Signal Compatibility		VGA, SVGA, SXGA, SXGA+, UXGA, WUXGA, 4K				
Macintosh Compatibility		Yes				
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter				
	RGB2 (analog)	5-BNC				
	RGB1 (Digital) RGB2 (digital)	HDMI (V1.4) w/HDCP DisplayPort w/HDCP	HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4 HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB3 (digital)	HDBaseT	DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4.4.4			
	RGB4 (digital)	TID BUSCI	DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4:4:4			
	RGB5 (digital)		HDBaseT w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 8 bit 4:2:0			
	RGB6 (digital)		Quad 3G-SDI			
	Option Slot					
	Video					
	Audio 1					
	Audio 2 Audio Out					
	Monitor Out	HDMI (V1.4) w/HDCP				
	USB Type A	TISHI (TTT) WITTEST				
	USB Type A (behind					
	cover)					
	USB Type B (behind cover)					
Wired LAN port						
3D Sync Line		3Pin D	15 pin			
Audio						
External Control		RS-232, IR, HDBaseT, Stereo Mini , RJ-45	RS-232, IR, HDBaseT, Stereo Mini , RJ-45			
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	Separate Sync / Composite Sync / Sync on G			
Power Requirements		100 - 240V AC, 50/60Hz 9.2A	220 - 240V AC, 50/60Hz Single Phase 30A	220 - 240V AC, 50/60Hz Single Phase		
Input Current Power Consumption		9.2A 1392W/1110W/752W/1291W/1.83W/5.7W	30A 3665W / 205W	4705W / 205W		
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	1.0011720011		
Dimensions (WxDxH)		26.8 x 33.9 x 13.1 in. / 680 x 860 x 333mm	27.4 x 46.5 x 17.9 in. / 697 x 1180 x 455mm			
Net Weight		149.9 lbs. / 68 kg	372.6 lbs. / 169 kg	317.6 lbs. / 144 kg		
Fan Noise		47 dB normal	55 dB normal			
Regulations			"UL60950-1 (2nd)/ FCC Part15 Class A (Marking: UL)	"III 60950.1 (2nd)/ ECC Part15 Class A (Marking: III.)		
			CSA60950-1 / ICES-003 Class A (Marking: CAN ICES-38(A)/NMB-38(A)) EN60950-1/EN55022 Class A,EN55032 Class A,EN55024, EN61000-3-2/-3-3/-3-11/-3-12 (Marking CE) IEC60825-1 Edition3 2014 : Class1, IEC62471 2006 : RG3, FDA(21 CFR 1040.10 and 1040.11)			
			IEC60825-1 Edition3 2014 : Class1, IEC62471 2006 : RG3, FDA(21)	CFR 1040.10 and 1040.11)		
Operating Temperature		41° - 104°F / 5° - 40°C	IEC60825-1 Edition3 2014 : Class1, IEC62471 2006 : RG3 "			
Operating Temperature Humidity		20-80% non-condensing	20-80% non-condensing			
Storage		-14° – 122°F / -10° – 50°C	-14° - 122° F / ·10° - 50° C			
Storage		, >> >	17 122 1 / 10 TJU C			

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